18/11/2015 الأربعاء م.مي سكشن 6

3

$S \rightarrow 0A \mid 1B$

$A \rightarrow 0AA \mid 1S \mid 1$

$B \rightarrow 1BB \mid 0S \mid 0$

001101

- S
  - 0
  - A
    - 0
    - A
      - 1
    - A
      - 1
      - S
        - 0
        - A
          - 1

- S
  - 0
  - A
    - 0
    - A
      - 1
      - S
        - 1
        - B
          - 0
    - A
      - 1

4

$S \rightarrow Ab \mid aaB$

$A \rightarrow a \mid Aa$

$B \rightarrow b$

(a) aab

$S \Rightarrow aaB \Rightarrow aab$

$S \Rightarrow Ab \Rightarrow Aab \Rightarrow aab$

(b)

- S
  - a
  - a
  - B
    - b

- S
  - A
    - A
      - a
    - a
  - b

✓

(c) $S \rightarrow Ab$

$A \rightarrow a \mid Aa$.